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NPIC/TSG/RED-169/70
8 July 1970

MEMORANDUM FOR: Chief, Technical Services Group, NPIC
ATTENTION : Special Assistant, TSG/NPIC
SUBJECT : Inadequacies of RED's FY-71 T/O as
Currently Formulated

1. At your request, we have reviewed our current authorization for technical personnel assigned to the Research & Engineering Division for FY-71. This review was based upon our known and projected future work requirements and has been equated against current projections for future year R&D budgets. As a consequence, we feel there are a number of key areas where the currently projected T/O would prove inadequate.

2. One of the primary areas of concern relates to efforts being carried out in the imagery interpretation research category. Previous papers have spelled out in great detail the requirement for an additional Psychologist with a strong background in experimental design. Exploitation systems are becoming more complicated, more sophisticated, and considerably more expensive. With the implication inherent in larger investments required, the Division is more and more called upon to establish a firm technical and cost foundation prior to proceeding into the design and fabrication stages. More often than not, this requires obtaining objective "cost effectiveness" type data from highly subjective operational inputs. This objective data can only be obtained through sound experimental design and subsequent strong statistical analysis. A prime example was a recent "crash" [] effort to determine the effectiveness of the Model II Rhomboids prior to a large procurement action. It is predictable that the demands for this type of analysis will increase in the future. [] is our only capability at present; our resources need to be expanded- [] time is currently saturated.

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3. We had previously requested and still badly need an Electro-Optical Engineer. The recent increase in the FY-72 budget raising the R&D efforts in the EOI area of endeavor past the [] figure is a strong indication of the validity of this requirement. Since we know we will have expanded electro-optical problems by FY-72, it makes little sense to wait until FY-72 to recruit and train the individuals necessary to solve these problems after they have occurred.

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25X1 4. We still have serious problems in terms of GS-13 positions
25X1 which require upgrading to the GS-14 level. Two of these are mandatory.
25X1 [] is still PRA, a GS-14 in a GS-13 position. Although his
PRA was recently extended for one year, we cannot expect the situation
to continue indefinitely. Furthermore, with the acquisition of Dr.
[] as a GS-13/7 to replace [] on Digital Image Manipu-
lation, we have to anticipate a future upgrading of that slot to a
GS-14 level. At the GS-13/7 level, there is little room for even
periodic increases in order to reward superior performance. In addition,
it should be recalled that [] was previously employed by the
Agency as a GS-14, and it is highly predictable that we would not be
able to retain him over an extended period at the GS-13 level.

5. The above discussion covers RED's areas of major concern
and deserve high priority for TSG's consideration. There are however,
some additional areas that need to be mentioned. They are of lower
priority, but still need to be kept in mind: (1) we continue to need,
rather badly, a D&E technician in the Advanced Technology Branch in order
to obtain better utilization of our highly qualified scientific personnel
by relieving them of more mundane assignments; and (2) the Research &
Engineering Division has a definite "head room" problem--now in the
early stages of development. The problem is not yet crucial, but will
begin to reach significant proportions at the end of FY-71 and the
beginning of FY-72.

[]
Chief, Research & Engineering Division,
TSG/NPIC

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